

ABSTRACT OF THE DISCLOSURE

An exhaust gas purifying system causes less torque fluctuation and is capable of preventing the occurrence of white smoke in a regeneration control operation for regenerating a continuous regeneration DPF 3. When the continuous regeneration DPF 3 with an oxidation catalyst 3Aa on the upstream side of a filter 3Ab is controlled to regenerate, an exhaust throttle valve 31 provided in an exhaust passage 2 is closed and a delay multi-step injection control is performed to increase the temperature of the exhaust gas if an exhaust temperature T_1 at the inlet of the oxidation catalyst 3Aa is less than the activation temperature T_a of the oxidation catalyst. After the exhaust temperature T_1 at the inlet of the oxidation catalyst 3Aa has risen to the activation temperature T_a of the oxidation catalyst or higher, the exhaust throttle valve 31 is opened in a stepwise or continuous manner so that the exhaust temperature T_2 at the inlet of the filter 3Ab rises to a lower limit temperature of PM forced combustion T_{b1} or higher.